

## 3LPE STEEL PIPE

**3LPE steel pipe** is a special anticorrosion structure for buried pipelines with three layers of materials sequentially coated on the outer wall of the pipe: the bottom layer is fusion bonded epoxy powder (FBE), which provides excellent adhesion and cathodic stripping protection; the middle layer is a copolymer adhesive, which ensures inter-layer adhesion; and the outermost layer is extruded-coated high-density polyethylene (HDPE), which provides excellent mechanical protection, impact resistance, and anti-soil stress performance. This composite structure greatly enhances the long-term corrosion resistance of the pipe in harsh environments.



- **Outside Diameter:**  $\Phi 60\text{mm} - 3000\text{mm}$  (2" - 118")
- **Wall Thickness:** 4.5 - 50mm
- **Quality Standards:** ISO 21809-1, DIN 30670, NFA 49-710, CSA Z245.21
- **Length:** 6m - 18m (20" - 60")
- **Coating Type:** 3LPE (Three-Layer Polyethylene)



# Specification

Category	Parameter	FBE Steel Pipe	3PE Steel Pipe	3PP Steel Pipe
Basic Specs	OD (mm/in)	60-3000 (2"-118")	60-3000 (2"-118")	60-3000 (2"-118")
	Wall Thickness (mm)	5.0-40	6.0-45	6.0-45
	Length (m/ft)	6-18 (20'-60')	6-18 (20'-60')	6-18 (20'-60')
	Coating Color	Green/Beige/Custom	Black (Std)	Yellow/Custom
	Temp. Range (°C)	-40~100 (150° C DL*)	-40~80	-40~140
Coating Structure	Base Layer	FBE Primer	FBE Primer	FBE Primer
	Intermediate Layer	N/A	Copolymer Adhesive	Copolymer Adhesive
	Top Layer	N/A	Polyethylene (2-4mm)	Polypropylene (2-4mm)
Certifications	Intl. Standards	ISO 21809-2 CSA Z245.20	ISO 21809-1 DIN 30670	ISO 21809-3 GB/T 23257
	Special Certs	NSF/61 (Potable Water)	-	-
Performance	Cathodic Compatibility	Excellent	Good	Excellent
	Abrasion Resistance	Moderate	Good	Superior
	Chemical Resistance	Good	Moderate	Superior
Packaging	End Protectors	Beveled/Plain End Caps	Same as FBE	Same as FBE
	Interlayer Padding	Specialty Spacers	Reinforced Spacers	Reinforced Spacers
	Max. Stack Height	3.5m	3.0m	3.0m
Commercial Terms	Delivery Time	30-60 days	45-75 days	45-75 days
	Payment Terms	30% Deposit 70% Pre-ship	Same as FBE	Same as FBE
	20'GP Container Loading	28 MT	25 MT	25 MT



# production process

